

CORNELL UNIVERSITY OFFICIAL PUBLICATION

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Number 19

Announcement of the Graduate School of Education for 1931-32

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THE UNIVERSITY CALENDAR FOR 1931-32

1931

FIRST TERM

Sept. 21,	<i>Monday,</i>	Entrance examinations begin.
Sept. 28,	<i>Monday,</i>	Registration and assignment of new students.
Sept. 29,	<i>Tuesday,</i>	
Sept. 29,	<i>Tuesday,</i>	Registration and assignment of old students.
Sept. 30,	<i>Wednesday,</i>	
Oct. 1,	<i>Thursday,</i>	Instruction begins at 8 A.M.
Oct. 23,	<i>Friday,</i>	Last day for payment of tuition for the first term.
Nov. 25,	<i>Wednesday,</i>	Instruction ends at 6 P. M.
Nov. 30,	<i>Monday,</i>	Instruction resumed at 8 A.M.
Dec. 19,	<i>Saturday,</i>	Instruction ends at 1 P. M.
1932		Instruction resumed at 8 A.M.
Jan. 4,	<i>Monday,</i>	
Jan. 11,	<i>Monday,</i>	Founder's Day.
Jan. 30,	<i>Saturday,</i>	Instruction ends.
Feb. 1,	<i>Monday,</i>	Term examinations begin.
Feb. 10,	<i>Wednesday,</i>	Term ends.
Feb. 11,	<i>Thursday,</i>	A holiday.

SECOND TERM

Feb. 12,	<i>Friday,</i>	Registration of all students.
Feb. 15,	<i>Monday,</i>	Instruction begins at 8 A. M.
Mar. 7,	<i>Monday,</i>	Last day for payment of tuition for the second term.
April 2,	<i>Saturday,</i>	Instruction ends at 1 P. M.
April 11,	<i>Monday,</i>	Instruction resumed, 8 A. M.
May 28,	<i>Saturday,</i>	Spring Day: a holiday.
June 6,	<i>Monday,</i>	Term examinations begin.
June 14,	<i>Tuesday,</i>	End of term examinations.
June 20,	<i>Monday,</i>	COMMENCEMENT.

GRADUATE SCHOOL OF EDUCATION

FACULTY

LIVINGSTON FARRAND, A.B., M.D., L.H.D., LL.D., President of the University.
FLOYD KARKER RICHTMYER, A.B., Ph.D., Dean of the Graduate School.
JULIAN EDWARD BUTTERWORTH, A.B., A.M., Ph.D., Director of the Graduate School of Education.

STAFF OF INSTRUCTION

THOMAS LEVINGSTON BAYNE, jr., Ph.D., Assistant Professor of Rural Education.
EMMA M. S. BESIG, A.B., Instructor in Education.
CORA E. BINZEL, M.S., Professor of Rural Education.
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EMERY N. FERRISS, Ph.D., Professor of Rural Education.
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LUELLA PEARL GARDNER, M.S., Instructor in Rural Education.
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EDWIN RAYMOND HOSKINS, M.S.A., Instructor in Rural Education.
MELVIN L. HULSE, M.A., Instructor in Education.
RIVERDA HARDING JORDAN, Ph.D., Professor of Education.
PAUL J. KRUSE, Ph.D., Professor of Rural Education.
MAX LUDWIG WOLFRAM LAISTNER, M.A., Professor of Ancient History.
HELEN METCALF, B.A., Instructor in Rural Education.
CLYDE B. MOORE, Ph.D., Professor of Rural Education.
ROBERT MORRIS OGDEN, Ph.D., Professor of Education.
E. LAURENCE PALMER, Ph.D., Professor of Rural Education.
PRESERVED SMITH, Ph.D., Litt.D., Professor of Medieval History.
ROLLAND MACLAREN STEWART, Ph.D., Professor of Rural Education.
ANDREW LEON WINSOR, Ph.D., Assistant Professor of Rural Education.

ASSISTANTS

B. LLOYD BLACK, M.A., Assistant in Rural Education.
EARL YOUNG FITCH, M.A., Assistant in Rural Education.
SEYMOUR N. VAUGHAN, B.S., Assistant in Rural Education.

GRADUATE SCHOOL OF EDUCATION

By action of the Board of Trustees in April, 1931, the University Division of Education was discontinued, and a Graduate School of Education was established. Through this organization the work of the Department of Education in the College of Arts and Sciences and of the Department of Rural Education in the College of Agriculture are further coordinated, and the administration of the professional work for the training of teachers is unified.

Although the organization is designated as a graduate school, and although the major part of its offerings are on the graduate level, it has responsibility, also, for professional courses in Education offered to undergraduates in the various colleges. The undergraduate courses include those that are ordinarily required for a state teachers' certificate (see page 13), together with a few additional courses designed to be attractive, because of their general informational value, to students not planning to enter the teaching profession. A Bachelor's degree in Education is not conferred by Cornell University. Accordingly, an undergraduate registers in some college of the University, and must, therefore, meet the standards of admission and graduation set by that college.

The Graduate School of Education is an integral part of the Graduate School of the University and, as such, is subject to its general regulations. The prospective student should, therefore, consult also the Announcement of the Graduate School.

TUITION FEES IN THE UNDERGRADUATE COLLEGES

Facts regarding tuition fees in the several schools and colleges of the University can be found in the General Information Number.

GRADUATE WORK

Qualified students may be admitted to candidacy for the Master's degree or for the degree of Doctor of Philosophy with a major or a minor or both in some phase of Education. A graduate of any college in which requirements for a first degree are substantially equivalent to those for the first degree at Cornell may be admitted to resident study in the Graduate School. He may at once enter upon candidacy for an advanced degree if he can show that he is qualified to pursue the subjects in which he proposes to work.

In order to avoid delays at the beginning of the academic year, those who desire to enter the Graduate School are advised to make application for admission, either in person or by letter, in the preceding spring or summer. They should address the Dean of the Graduate School, Cornell University, Ithaca, N. Y., and also communicate with the professor under whose direction they desire to study.

A tuition fee of \$75 for the academic year is to be paid by all students registered in the Graduate School. It is payable in installments of \$37.50 at the beginning of each term.

Certain classes of students are exempt from the payment of the tuition fee. They are:

(1) Graduate students holding certain appointments as University Fellows or Graduate Scholars, and holders of certain temporary fellowships and scholarships.

(2) Resident Doctors, i.e., students in the Graduate School who have the Doctor's degree and are not candidates for a degree.

(3) Graduate students holding appointments as assistants and instructors and having their major studies in the college or line of work in which they are instructing, are exempt from the payment of tuition fees and laboratory and shop fees in the department in which they are employed to give instruction during the regular first and second terms only; members of the instructing staff who take work for which they must pay tuition are required to pay in proportion to the amount of work for which they are registered.

An administration fee of \$25, a matriculation fee of \$10, an infirmary fee of \$5 each term, a Willard Straight Hall fee of \$5 each term, and a graduation fee of \$20 is also charged.

Any tuition or other fee may be changed by the Board of Trustees to take effect at any time without previous notice.

The following excerpts from the Announcement of the Graduate School give the prospective graduate student useful information on the general subject of the Master's degree and the degree of Doctor of Philosophy. For details the Announcement itself should be consulted.

THE MASTER'S DEGREE

The Master's degree is conferred upon a candidate who, after completing at least one year of residence devoted to the study of a field comprising a Major Subject and one Minor Subject, presents a satisfactory thesis, or essay, as the chairman of the candidate's Special Committee may decide, and passes an examination on his special field.

The thesis, or essay, must demonstrate the candidate's ability to do independent work, and must be acceptable in style and composition.

A statement of the general subject of the thesis, or essay, with the written approval of the chairman of the Special Committee in charge of the candidate's work, must be filed in the office of the Dean at least six months before the candidate expects to present himself for examination.

After this thesis, or essay, has been duly presented and is accepted by the Special Committee, the candidate is required to present himself for examination on his Major and Minor Subjects and on the subject matter of his thesis.

Examinations for a Master's degree may be written or oral, or both, at the option of the examining committee, and are open to all members of the Faculty.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred upon a candidate who, after completing not less than three years of resident graduate work devoted to the study of a field of work comprising a Major Subject and two Minor Subjects, presents a satisfactory thesis, and passes an examination on his chosen field and on the subject matter of his thesis.

The Doctor's degree is intended to represent, not a specified amount of work covering a specified time, but the attainment, through long study, of independent and comprehensive scholarship in a special field.

A candidate for the Doctor's degree will ordinarily be expected to have a working knowledge of French and German before beginning graduate work. In all cases he must, before beginning his second year of residence, show to the satisfaction of his Special Committee that he possesses a reading knowledge of these languages.

Candidates for the degree of Doctor of Philosophy are required to pass a Qualifying Examination, to be held normally not later than the close of the second year of residence.

The thesis for the Doctor's degree must give evidence of the candidate's power to carry on independent investigation and must be satisfactory in style and composition. A statement of the general subject of the thesis, with the written approval of the chairman of the Special Committee in charge of the candidate's work, must be filed in the office of the Dean at least six months before the candidate expects to present himself for examination. The thesis of a candidate intending to take his degree at the June commencement should normally be completed by May 15, in order that ample time may be afforded for the inspection of the thesis by all members of the Special Committee. The completed thesis, approved by the Special Committee, is to be presented at the office of the Graduate School at least five days before the examination for the degree, and must remain on file until the day preceding the examination.

The final examinations for the Doctor's degree may be either oral or written, or both, at the option of the examining committee, and are open to all members of the Faculty. The Faculty has, however, expressed the opinion that a written examination should be required for the doctorate at some time during the student's candidacy. In the event of failure in final examination, no re-examination may be held until three months after the completion of the minimum period of residence.

It is not the policy of the Graduate School to divide the final examination for advanced degrees into parts, or to accept piece-meal fulfilment of the requirements for these degrees. In ordinary cases, examinations for advanced degrees are not held until after the candidate has completed the minimum period of residence and presented a thesis duly approved by the members of his Special Committee. But on recommendation of the Special Committee the general exam-

ination for the Doctor's degree may be held not earlier than two weeks before the end of the fourth term of residence. If this examination be passed, it must be followed by an examination on the subject matter of the thesis when the completed thesis is presented.

THE MASTER'S DEGREES IN EDUCATION

A degree of Master of Arts in Education or of Master of Science in Education is conferred upon a candidate, who, after completing at least one year of residence devoted to the study of a field in which Education constitutes the major portion, presents satisfactory evidence of ability to carry work of graduate grade, passes such examinations, and meets such other conditions as his Special Committee under the general supervision of the Graduate School of Education may direct.

These degrees are designed for school executive officers and teachers who do not wish to enter upon a restricted course of study involving intensive research, or who wish to supplement their work in order to meet advanced requirements for certification. In general these candidates are expected to fall into one of three classes:

CLASS I. Men and women, graduates of standard colleges, who have been successful in educational positions, and are seeking additional preparation on the graduate level. Many of these do not want to enter upon a restricted course of study involving intensive research. They are, however, ready to carry on systematic study of graduate grade having a direct bearing upon their professional problems.

CLASS II. Men and women, graduates of standard colleges, who wish to qualify as principals of high schools or as supervisors in various fields in accordance with programs of special professional preparation outlined by various states for these particular fields.

CLASS III. Men and women, graduates of standard colleges, who have not found it possible to include in their undergraduate programs preliminary courses in the field of Education which would qualify them to enter immediately upon graduate courses in Education, and who demand a program so planned as to enable them to satisfy these requirements in less time than would ordinarily be required as part of their graduate study leading to the Master's degree.

The character and quality of work expected for the attainment of these degrees shall be, in all respects, equivalent to the prevailing standards for the regular Master's degrees.

1. The candidate, in addition to meeting the admission requirements of the Graduate School of the University will be required to show evidence (satisfactory to his Special Committee) of a suitable foundation for the courses leading to the special degrees.

2. With the advice of the Director of the Graduate School of Education the candidate shall choose three members of the graduate faculty to serve on his special committee. At least two of these shall

be from the Education staff, one of the two being selected by the candidate to act as chairman.

3. The office of the Director of the Graduate School of Education shall function as an office of record, and the candidate for one of these degrees shall, within ten days of his registration, file in writing a statement approved by his committee showing his plan of work and course of study.

4. The candidate will be required to unify his studies and prove his competence by the successful completion of such courses, seminars, special projects and examinations as may be designated by his Special Committee. A thesis is not required but a candidate whose interests are best served by a special investigation may offer such a study in partial fulfilment of the requirements for the degree.

5. The candidate must complete graduate courses approximating a total of thirty semester hours, at least four hours of which shall be of the seminary type. A candidate who plans to complete the residence requirements during summer sessions may elect, in lieu of seminaries, such activities as may be approved by his Special Committee.

6. Upon the satisfactory completion of the work outlined by the Special Committee and the passing of a final examination, the Faculty of the Graduate School of Education will recommend to the Faculty of the Graduate School that the candidate be granted the appropriate degree. Prior to scheduling this examination, all members of the staff under whom the candidate has carried course work or who have acted in any advisory or similar capacity with him shall be informed of his proposed examination and shall be asked: (1) To express an opinion regarding his fitness for such examination, and (2) To be present and take part in the examination.

The courses expected of the candidate will usually fall into three groups designated as A, B, and C. There will be no sharp line of demarcation between these groups, but the following statement may serve as a guide in differentiating them.

GROUP A. Courses of a special nature such as a group of courses in English, the languages, history, or science which are essential to a well-trained high school teacher; or specialized courses in Education such as experimental investigation, the principalship of village and centralized schools, teaching science in the secondary school, and directed teaching in home economics.

GROUP B. Courses of a more technical character, though not highly specialized, such as rural secondary education, city school administration, and educational measurements.

GROUP C. Courses such as those in educational psychology dealing with the common problems of learning, the philosophy of education, the history of education, educational sociology, and the principles of education.

The candidate will be expected to select such courses within each of the above fields as shall seem, in the judgment of his committee, best suited to meet his particular needs. In general, he will be expected to present some courses from each of the three groups.

The course offerings of the University will vary from time to time as new needs are recognized and as additional facilities for instruction are made available. The following outline is presented for the purpose of suggesting to candidates courses offered during the year 1931-32 that are considered desirable in preparing for certain types of positions. These suggestions are to be considered as directive rather than restrictive. A grouping of courses for other types of positions may, of course, be made by the candidate and his Special Committee.

For further information regarding either the degree of Master of Arts in Education or Master of Science in Education address the Director of the Graduate School of Education.

I. COURSES OFFERED DURING THE REGULAR ACADEMIC YEAR

In a few cases a course is classified in different groups because of the varying demands of the different positions. Courses enclosed in brackets are not given in 1931-32.

	GROUP A	GROUP B	GROUP C
General Elementary Supervisors	223*; 263	21; 227; 7 or 251; 10 or 261; 276	17; 211a or 1; 5 or 294; 20
Supervisors of Agriculture	[222]; 245; [250]; 267	211a; 234; 251; 262; 263; 281; or substitutes; Rural Social Organization 12	7; [12]; 194 or 294; [212] or 218
Supervisors of Home Economics	[269] and advanced courses in Foods and Nutrition, Textiles and Clothing; Family Life; Household Art; Household Management	[222]; 234; 248; 251; 261; 263; 276; 281; 287; Rural Social Organization 1; 214	211a; 194; 294; 116; 218
Supervisors of Nature Study and Science	7; 102; [109]; 126; 226; and courses most needed in various science departments	223; 227; 241; 251; 252; 263; 276; 281; 287	116; 3 or 13; 211a or 1; 239; 294
Superintendents (village, town, district, county and supervising principals)	21; [175]; 262	7 or 251; 261 or 10; [12] or 287; 227; 234; 252; 262; 263; [264]; 276; 281; and courses from departments of Rural Social Organization and Agricultural Economics	1 or 211a; 17; 20; 294 or 5; [222]

*Courses numbered under 100 are offered by the Department of Education; those numbered 100 or over are offered by the Department of Rural Education.

Principals of high schools (persons responsible to a superintendent and not dealing directly with a board of education)	[12] or 287*; 262	7 or 251; 10; 21; 263; [264]; 276; 278; 281	211a or 1; 17; 5 or 294; [222]; 20; 16
Principals of small village and centralized schools	[175]; 223; 262	[12] or 287; 251 or 7; 281; 263; 223; 261; 276; and courses in Rural Social Organization and Agricultural Economics	211a or 17; 5 or 294
Teachers of Agriculture	[222]; 267 and under certain conditions advanced courses in agricultural electives	[175]; 234; 251; 261; 276; 281	13; 194; 211a or 1; [212] or 218
Teachers of Home Economics	Advanced courses in Home Economics subjects	[222]; 234; 251; 276; 281; 287; and Rural Social Organization I	211a; 194; 116
Teachers of academic subjects	4; 121; [222]; 276; and appropriate courses in academic subjects and teachers' courses in specific subjects	7; 8; 10; [12]; 21; 234; 251; 252; 263; 278; 287	1 or 111; 211a; 2 or 181; 5; 6; 16; 20; 17; 281; 294

*Courses numbered under 100 are offered by the Department of Education; those numbered 100 or over are offered by the Department of Rural Education.

II. COURSES OFFERED DURING THE 1931 SUMMER SESSION

These are, in general, representative of summer session offerings suitable for persons seeking one of these degrees.

	GROUP A	GROUP B	GROUP C
General Elementary Supervisors	S18; S263; S30	S7; S8; S17; S150; S151; S281; S10; S122	S1 or S111a or S111b; S226; S6; S28
Supervisors of Agriculture	S245; S267a	S151; S263; S281; S194	S111a or 111b; S226
Supervisors of Home Economics	S235; S235a; S235b; S248	S151; S194; S226; S263; S288	S111a or 111b

	GROUP A	GROUP B	GROUP C
Supervisors of Nature Study and Science	SI26; SI28; S7a	SI51; S263	SI11a or SI11b or SI
Superintendents (village, town, district, county and supervising principals)	SI0; SI1; S262	S5; S7; S8; SI4; SI7; SI8; SI50; SI51; S263; S281; SI22	SI or SI11a or SI11b; S226
Principals of high schools (persons responsible to a superintendent and not dealing directly with a board of education)	SI0; SI1; S262	S5; S7; S8; SI4; SI7; SI51; S263; SI22; S281	SI11a or SI11b or SI; S226; S6
Principals of small village or centralized schools	S262	SI7; SI50; SI51; S263; S281; SI22	SI or SI11a or SI11b; S226
Teachers of Agriculture	S267a	SI51; S281; SI94	SI11a or SI11b
Teachers of Home Economics	SI35a; S235	SI51	SI11a or SI11b
Teachers of academic subjects	S226; SI21b; S4; and appropriate courses in academic subjects and teachers' courses in specific subjects	S5; S7; SI1; SI4; SI7; SI8; S281; SI50; SI51; S263	SI or SI11a or SI11b; SI81 or S2; S28

THE EDWARD A. SHELDON SCHOLARSHIP FOR WOMEN TEACHERS

The Faculty of the Graduate School of Education has the power of award of the Edward A. Sheldon Scholarship for Women Teachers, which is open "to any woman of suitable qualifications who needs this assistance," preference to be given candidates in this order: first, a woman graduate of the normal school at Oswego, N. Y.; second, a woman graduate of any other normal school of the State; third, a suitably qualified woman who is preparing to teach. The annual income is about \$150.00. Application for this Scholarship for the academic year of 1931-32 should be filed with the Director of the Graduate School of Education on or before August 1, 1931.

APPOINTMENT SERVICE FOR TEACHERS

An appointment service is maintained by the Graduate School of Education. Its purpose is to assist men and women who have studied or who are studying at Cornell University to secure positions in educational work. Such persons are invited to use this service, which is performed without charge. Those desiring assistance should communicate with the office of the School.

OBSERVATION AND DIRECTED TEACHING

Special arrangements have been made with the local school authorities for the observation of teaching. To facilitate further the training of teachers in certain phases of the work, provision has been made for directed teaching in the nearby villages of Trumansburg and Groton.

PHYSICAL EDUCATION

The University Department of Physical Education offers a four-year undergraduate course designed to meet the requirements for the New York State Teacher's Certificate in Physical Education. Any undergraduate desiring to prepare for the teaching of physical education should select the necessary courses in Education from those offered by the Graduate School of Education.

METHODS COURSES IN ACADEMIC SUBJECTS

A group of courses for prospective teachers is offered in the College of Arts and Sciences to prepare for teaching various subjects of the secondary school curriculum. Elections from these may be made in meeting the requirements for the methods groups. A description of each course will be found in the announcement of the College of Arts and Sciences.

TEACHERS' COURSE (English 98). Professor NORTHUP.

TEACHING OF FRENCH (French 30). Professor MASON.

TEACHERS' COURSE IN METHODS (German 40). Professor FAUST.

TEACHERS' TRAINING COURSE (Latin 26). Professor DURHAM.

TEACHERS' COURSE (Mathematics 20). Assistant Professor CRAIG.

TEACHING OF PHYSICS IN SECONDARY SCHOOLS (Physics 91). Mr. ———.

PHONETICS AND SPEECH TRAINING (Public Speaking 25). Mr. THOMAS.

(Special methods courses in Agriculture, Homemaking, Nature Study, and the elementary school subjects are described in this announcement.)

REQUIREMENTS FOR CERTIFICATION

To meet the requirements of the State of New York for any form of permanent certificate the candidate is required to complete 18 semester hours in education; or in lieu thereof to take examinations in the required subjects. The 18 hours are distributed as follows: Psychology, 6 hours; History and Principles of Education, 6 hours; and Methods, 6 hours. These requirements may be met by several combinations of courses that are offered by the Graduate School of Education. The following are suggested:

Psychology: six hours are required.

*Education I 3 hours
or

*Rural Education III 4 hours

Psychology I 3 hours

Education 7 3 hours

Education 17 2 hours

Rural Education II6 2 hours

*Education I or Rural Education III must be taken and work elected from the other courses to make a minimum of 6 credit hours.

History and Principles; six hours are required.

Education 2, 3a, 3b, 5, 13, 16.

Rural Education 181.

At least one course in History of Education and one in Principles of Education are required.

Methods; six hours are required.

Education 4, 4a.

Rural Education 7, 121, 126, 131, 133, 135, 136.

Elections from methods courses in academic subjects (see page 13).

Education 4 or Rural Education 121 (or the equivalent) is required of all students. Students should obtain advice from members of the Graduate School of Education regarding elections from this group.

The courses suggested above are the ones that are normally expected to be used in meeting certification requirements. Substitutions should be made only with the approval of members of the Graduate School of Education.

Requirements for certification vary from state to state. These variations are so marked that adequate information cannot be given in brief space. It is the intention of the School to offer such courses which will insure qualification for teaching certificates generally, but in many cases this will involve the working out of special programs for individual students. Accordingly, students are advised to communicate with the office of the Graduate School of Education for information regarding their special needs.

THE SUMMER SESSION

The term of the Cornell University Summer Session covers a period of six weeks from early July to the middle of August. A wide range of courses is offered for those in educational work. Prospective students should apply to the Secretary of the Summer Session for a copy of the official announcement. A description of the courses offered in the 1931 Summer Session that are not offered during the regular year may be found on pages 24-26 of this announcement.

COURSES OF INSTRUCTION

In the statement given below the term "Education 1," "Education 6," etc., given in parenthesis following the name of the course, indicates that the course is offered by the Department of Education. "Rural Education 111," "Rural Education 114," etc., means that the course is offered by the Department of Rural Education.

All courses offered by the Department of Education require Psychology 1 as a prerequisite.

In the Department of Rural Education courses are grouped by decades: General, 1-10; Psychology, 11-20; Educational Method, 21-40; Preparation of Teachers for Normal Schools and Colleges, 41-50; Educational Measurement, 51-60; Educational Administration and Supervision, 61-80; Principles of Education, 81-90; Philosophy of Education, 91-100. All courses numbered under 100 are

intended primarily for underclassmen; those from 101-200 are primarily for upperclassmen and graduate students; while those numbered 201 and over are primarily for graduate students.

It should be noted that courses carrying the same name are not necessarily equivalents.

COURSES OFFERED IN 1931-32

These courses are listed in the same order as they occur in the announcement. A statement of certification requirements is given on page 13.

GENERAL COURSES (pages 16f)

Rural Education 1.	Introduction to Problems of Public Education. First term.
Education 20.	Seminary in Education. First term.
Education 21.	Seminary in Education. Second term.

PSYCHOLOGY (pages 17f)

Education 1.	Educational Psychology. Either term.
Rural Education 100.	Psychology: An introductory course. First or second term.
Rural Education 111.	Psychology for Students of Education. Either term.
Rural Education 114.	Psychology for Students of Hotel Administration. First term.
Rural Education 116.	Psychology for Students of Child Training. Second term.
Rural Education 119.	Personnel Administration. Second term.
Rural Education 211a.	Psychology for Students of Education. First term.
Rural Education 218.	Seminary in Educational Psychology. Second term.
Education 6.	Experimental Education. Second term.
Education 17.	Mental Development. First term.
Education 8.	Experimental Investigation. Either term.

EDUCATIONAL METHOD (pages 18ff)

Rural Education 121.	Method and Procedure in Secondary School Teaching. First term.
Education 4.	Method and Procedure in High School Teaching. First term.
Education 4a.	Observation and Practice in High School Method. First term.
Education 4b.	Practice in High School Method. Second term.
Rural Education 126.	The Teaching of Science in the Secondary School. Second term.
Rural Education 131.	Teaching Agriculture in the Secondary School. First and second terms.
Rural Education 133.	Directed Teaching of Agriculture in the Secondary School. Either term.
Rural Education 135.	The Teaching of Home Economics in the Secondary School. Second term.
Rural Education 136.	Directed Teaching of Home Economics in the Secondary School. Either term.
Rural Education 223.	The Teaching of Elementary School Subjects. First term.
Rural Education 226.	Research in Science Teaching. Either term.
Rural Education 227.	Seminary in Elementary Education. Second term.
Rural Education 234.	Seminary. First term.
Rural Education 239.	Methods in Extension Teaching. Second term.
Rural Education 240.	Educational Aspects of Cooperative Extension Work in Agriculture and Home Economics. First term.

PREPARATION OF TEACHERS FOR NORMAL SCHOOLS AND COLLEGES (page 20)

- Rural Education 241. The Preparation of Teachers for Normal Schools and Colleges. Second term.
 Rural Education 243. Problems in College Teaching. Second term.
 Rural Education 245. College Preparation of Teachers of Agriculture for Secondary Schools. Second term.
 Rural Education 248. The Preparation of Teachers of Home Economics. First term.

EDUCATIONAL MEASUREMENT (pages 20f)

- Education 7. Mental and Educational Measurement. First term.
 Rural Education 251. Mental and Educational Measurement. Second term.
 Rural Education 252. Conferences on Statistical Methods. Throughout the year.
 Rural Education 253. Statistics for Students of Education. First term.

EDUCATIONAL ADMINISTRATION AND SUPERVISION (pages 21f)

- Rural Education 161. Principles of School Administration and Supervision. First term.
 Education 10. City School Administration and Supervision. Throughout the year.
 Rural Education 261. The Administration of Rural Schools. First term.
 Rural Education 262. Special Problems in School Administration. Second term.
 Rural Education 263. Procedures and Techniques in Supervision. First term.
 Rural Education 267. Administration and Supervision of Agricultural Education. First term.
 Rural Education 276. Principles of Curriculum Building. Second term.
 Rural Education 278. Seminary in Rural Education. Second term.

HISTORY OF EDUCATION (pages 22f)

- Education 3. History of Education. Both terms.
 Education 13. History of American Education. Either term.
 Education 16. Readings in the History of Education. Second term.

PRINCIPLES OF EDUCATION (page 23)

- Education 2. Principles of Secondary Education. Second term.
 Rural Education 181. Principles of Education. Second term.
 Rural Education 194. Education and Vocations. First term.
 Rural Education 281. Rural Secondary Education. First term.
 Rural Education 287. The Junior High School and the Rural Community. Second term.

PHILOSOPHY OF EDUCATION (pages 23f)

- Rural Education 294. Philosophy of Education. Second term.
 Education 5. Philosophy of Education. Second term.

NATURE STUDY (page 24)

- Rural Education 7. Nature Study. Second term.
 Rural Education 102. Nature Literature. First term.

GENERAL COURSES

Introduction to Problems of Public Education (Rural Education 1). First term. Credit two hours. Designed for students not preparing to teach. Not credited toward the professional requirements in education. Not open to freshmen, T Th 10. *Caldwell* 100. Professor MOORE.

Seminary in Education (Education 20). First term. Credit two hours. Prerequisite, Education 1. Acting Professor RUEDIGER. M 4-6. *Goldwin Smith* 248. Topics relevant to the fundamental assumptions of educational theory will be chosen. Primarily for graduate students.

Seminary in Education (Education 21). Second term. Credit two hours. Admission by permission of the instructor. Professor JORDAN. M 4-6. *Goldwin Smith* 248.

Topics developing from historical and current problems of educational practice, especially as related to administration and conduct of the public school system and of the university. Primarily for graduate students.

PSYCHOLOGY

Psychology 1 is prerequisite to all courses in Education.

Educational Psychology (Education 1). Repeated in second term. Credit three hours. Lectures and recitations. First term, Assistant Professor FREEMAN and Mr. HULSE. M W F 11. *Goldwin Smith* 234. Second term, Professor OGDEN, Section I, T Th S 11, *Goldwin Smith* 134; Assistant Professor FREEMAN, Section II, M W F 10. *Goldwin Smith* 234.

A study of functional psychology with special reference to the learning process and its application to educational theory and practice. Students must apply at *Goldwin Smith* 251 for assignment to sections.

Psychology: An Introductory Course. (Rural Education 100). First or second term. Credit three hours. Open to students above the freshman year. M W F 8. Assistant Professor WINSOR.

Psychology for Students of Education (Rural Education 111). Either term. Credit four hours. Open to juniors and seniors. Assistant Professors BAYNE and WINSOR, and Miss GARDNER.

First term:

Section 1. Lectures, M W F 11. *Caldwell* 143. Laboratory, T 1:40-4. *Caldwell* 282.

Section 2. Lectures, M W F, 9. *Caldwell* 143. Laboratory, Th 1:40-4. *Caldwell* 282.

Second term:

Section 1, Lectures, M W F 11. *Caldwell* 143. Laboratory, T 1:40-4. *Caldwell* 282.

Section 2, Lectures, M W F 11. *Caldwell* 100. Laboratory, Th 1:40-4. *Caldwell* 282.

Psychology for Students of Hotel Administration (Rural Education 114). First term. Credit four hours. Open to juniors and seniors. Lectures, M W F 8. *Caldwell* 282. Laboratory, T Th 1:40-4, *Fernow* 210. Assistant Professor WINSOR.

Psychology for Students of Child Training (Rural Education 116). Second term. Credit two hours. Prerequisite, Rural Education 111. T Th 11. *Caldwell* 100. Professor KRUSE.

Personnel Administration (Rural Education 119). Second term. Credit three hours. Prerequisite, course 114 or the equivalent. M W F 9. *Caldwell* 282. Assistant Professor WINSOR.

Psychology for Students of Education (Rural Education 211a). First term. Credit four hours. For mature students with teaching experience. M W F 11-12:20. *Caldwell* 282. Professor KRUSE.

[**Psychology for Students of Education** (Rural Education 211b). Second term. For members of the teaching staff. Professor KRUSE.] Not offered in 1931-32.

[**Psychology of Learning** (Rural Education 212). Second term. Credit two hours. Professor KRUSE.] Not offered in 1931-32.

Seminary in Educational Psychology (Rural Education 218). Second term. Credit two hours. Th 4-6, *Caldwell* 282. Professor KRUSE.

Experimental Education. (Education 6). Second term. Credit two hours. Consent of the instructor is required. Education 7 should normally precede this course. Assistant Professor FREEMAN. Hours to be arranged. *Goldwin Smith* 248.

The chief problems of experimental education; the application of psychological and statistical methods to problems in educational psychology; chief results and practical bearings.

Mental Development. (Education 17). First term. Credit two hours. Prerequisite, Education 1 or its equivalent. Assistant Professor FREEMAN. W 2-4. *Goldwin Smith* 248.

A course in child psychology, dealing with the facts of mental growth and their interpretation, with special emphasis upon theories of learning.

Experimental Investigation. (Education 8). Repeated in second term. Credit and hours to be arranged. Consent of the instructor is required. Professor OGDEN and Assistant Professor FREEMAN. *Goldwin Smith* 248.

Experimental study of a special problem in educational psychology or in mental measurements.

EDUCATIONAL METHOD

Method and Procedure in Secondary School Teaching (Rural Education 121). First term. Credit three hours. Prerequisite, Rural Education 111. Open to juniors and seniors. Students preparing to teach home economics should take Rural Education 181. M W F 11. *Poultry Building* 174. Professor FERRISS.

The development of certain principles of teaching in secondary schools, and their application to practical questions arising from the problems of selecting and organizing teaching materials, planning class work, making the assignments, determining classroom and laboratory methods, directing study, managing the class, measuring the results of teaching, etc., considered in the light of the principles developed.

Method and Procedure in High School Teaching (Education 4). First term. Credit three hours. For seniors only. Professor JORDAN. M W F 11. *Goldwin Smith* 264. M W F 3. *Goldwin Smith* 256.

Designed for students who expect to teach in secondary schools. The relation and duties of high school teachers to their students, to the community, and to the state; methods of class management and types of recitation. Observation of actual high school classes required.

Observation and Practice in High School Method (Education 4a). First term. Credit one hour. For seniors only. Professor JORDAN, Mr. HULSE and Miss BESIG. M 4. *Goldwin Smith* 256.

Planned to be taken coincidentally with course 4, and required of students desiring to meet the New York State requirements for the provisional professional certificate.

Practice in High School Method (Education 4b). Second term. Credit two hours. For seniors only. Prerequisite, courses 4 and 4a. Mr. HULSE and Miss BESIG. M 4. *Goldwin Smith* 256.

This course is limited to students needing two additional hours credit in observation and practice to meet State education requirements. Enrollment is limited to students specifically recommended by the Department of Education. The work will involve daily observation and practice in the Ithaca High School under supervision of selected teachers and under the general direction of the Department of Education. Conferences will be held once a week with the instructor in charge.

The Teaching of Science in the Secondary School (Rural Education 126). Second term. Credit two or three hours. Prerequisites, Rural Education 111 and 121 or their equivalents. T Th 10. *Fernow* 16. Professor PALMER.

This course is concerned with the organization of high school science material, the introduction of scientific ideas to high school students, and a consideration of useful sources of information and supply. Opportunity is provided for observation of high school science teaching for the third hour of credit.

Teaching Agriculture in the Secondary School (Rural Education 131). First and second terms. Credit three hours a term. Open to students who have completed Rural Education 111, who have met the farm-practice requirements, and whose progress in the prescribed courses in agriculture is adequate. Lectures, T Th 9. *Caldwell* 282. One conference hour and not less than one laboratory period a week in directed teaching are required. Professor STEWART and Messrs. HOSKINS and PACKER.

A course for students preparing to teach agriculture in the secondary school, including participation in the organization of departmental work and in teaching.

Directed Teaching in Agriculture in the Secondary School (Rural Education 133). First or second term. Credit from one to three hours. Open only by permission. Professor STEWART and Mr. PACKER.

The Teaching of Home Economics in the Secondary School (Rural Education 135). Second term. Credit three hours. Prerequisite, course 111. Required of juniors preparing to teach. Course 181 or its equivalent should precede or parallel this course. Lectures, T Th 8. Laboratory, T or Th 1:40-4. *Caldwell* 143. Professor BINZEL.

This course proposes to interpret present day educational theories and practices as applied to home economics; to study the activities in which the home economics teacher engages and the factors which make for successful performance.

Directed Teaching of Home Economics in the Secondary School. (Rural Education 136). Either term. Credit two or three hours. Prerequisite, course 135.

Students planning to take this course should arrange with the department during the junior year. General conferences, S 8-10. *Caldwell* 282. Professor BINZEL and Misses BULL and HASTIE.

This course is designed to give students opportunity for observation and teaching under the guidance of the department. A week-end trip for the purpose of studying equipment is a part of the course.

[Principles of Method (Rural Education 222). Credit two hours. Prerequisites, Rural Education 211a or its equivalent and teaching experience. Professor STEWART.] Not offered in 1931-32.

Designed to develop through concrete situations the principles underlying successful teaching experience.

The Teaching of Elementary School Subjects (Rural Education 223). First term. Credit three hours. M W F 8. *Caldwell* 282. Professor MOORE.

A course designed for experienced elementary school teachers, supervisors, and others who are concerned with recent developments in this field. A critical consideration of important research studies which have a direct bearing upon the teaching of elementary school subjects.

Research in Science Teaching (Rural Education 226). Either term. Credit one or two hours. Open to graduate students who have had courses 111, 121 and 7. Professor PALMER.

Special problems in science teaching.

Seminary in Elementary Education (Rural Education 227). Second term. Credit two hours. T 4-6. *Caldwell* 143. Professor MOORE.

Open to graduate students who are especially interested in elementary school problems. The topics considered will vary from year to year, depending upon the interests of those participating.

Seminary (Rural Education 234). First term. Credit one hour. Th 4-5:30. *Caldwell* 143. Professor BUTTERWORTH.

A consideration of scientific method in education with particular reference to thesis writing.

Methods in Extension Teaching. (Rural Education 239). Second term. Credit two hours. Open to graduate students intending to serve in the field of cooperative extension work in agriculture or home economics, and to members of the staff in cooperative extension work. Prerequisite Rural Education 211a or an equivalent course in Educational Psychology. This course will be given in

case of an assured enrollment of six or more. Hours will be arranged to meet the convenience of the group enrolled. ———. Professor EATON.

A study of "direct contact methods" of teaching in cooperative extension work in agriculture and home economics.

Educational Aspects of Cooperative Extension Work in Agriculture and Home Economics (Rural Education 240). First term. Credit three hours. Open to graduate students informed or experienced in the system of cooperative extension work in agriculture and home economics. Hours will be arranged to meet the convenience of the group enrolled. ———. Professor EATON.

A study of educational aims, programs, and values in cooperative extension work in agriculture and home economics.

PREPARATION OF TEACHERS FOR NORMAL SCHOOLS AND COLLEGES

The Preparation of Teachers for Normal Schools and Colleges (Rural Education 241). Second term. Credit three hours. M W F 10. *Caldwell* 282. Professor BUTTERWORTH.

To meet the needs of those responsible for the training of teachers for rural elementary and secondary schools.

Problems in College Teaching (Rural Education 243). Second term. Open to graduate students intending to teach in colleges and to members of the staff of resident instruction. The course will be given in case of an assured enrollment of six or more. Hours will be arranged to suit the convenience of the group enrolled. ———. Professor EATON.

A study of the immediate objects of college teaching and of course organization and methods designed to attain them.

College Preparation of Teachers of Agriculture for Secondary Schools (Rural Education 245). Second term. Credit three hours. Open to graduate students of approved qualifications. M W F 9. *Caldwell* 282. Professor STEWART.

A study of college training for prospective teachers of vocational agriculture in the secondary school.

The Preparation of Teachers of Home Economics (Rural Education 248). First term. Credit three hours. Open to graduate students of approved qualifications. T Th S 10. *Caldwell* 294. Professor BINZEL.

This course is designed to meet the needs of persons who have had both technical preparation in home economics and teaching experience, and who desire to prepare for the special problems involved in the professional work of preparing teachers of home economics. It treats of collegiate and secondary curricula in home economics with reference to the technical preparation of teachers, their professional needs, supervised teaching experience, and the organization and content of special methods courses in home economics.

[**Seminary in Agricultural Education** (Rural Education 250). Second term. Credit one hour. For graduate students doing research in agricultural education. Professor STEWART]. Not offered in 1931-32.

EDUCATIONAL MEASUREMENT

Mental and Educational Measurements (Education 7). First term. Credit three hours. Prerequisite, Education 1 or equivalent. Assistant Professor FREEMAN. T Th S 9. *Goldwin Smith* 225.

The nature of intelligence. The history of the development of individual and group tests of intelligence; principles underlying their formation and application; the use of tests of intelligence in dealing with defective and superior children, and with problem cases; their use in general school problems and in fields outside the school. The theory, construction, and use of educational tests. Demonstration in administering tests.

Mental and Educational Measurement (Rural Education 251). Second term. Credit three hours. Prerequisite, permission to register. Primarily for graduate students. M W F 8. *Caldwell* 282. Assistant Professor BAYNE.

Mental and educational measurement in relation to the classification of pupils, determination of the progress of pupils, and other problems of the teacher, supervisor, and administrator.

Conferences on Statistical Methods (Rural Education 252). Throughout the year. Credit may be arranged. Designed primarily for students of education. By appointment, *Caldwell* 225. Assistant Professor BAYNE.

Statistics for Students of Education. (Rural Education 253). First term. Credit two hours. Primarily for graduate students in Education. Assistant Professor BAYNE.

A study of common statistical procedures in relation to critical reading of technical studies in education, research and writing reports of studies. Emphasis is placed upon an understanding of the appropriate use of statistical procedures rather than upon skill in computation of statistical measures. As far as possible the work is related to the problems of the individual student.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

[Principles of School Administration and Supervision (Rural Education 161). First term. Credit three hours. Open to juniors and seniors who have had courses 111 and 121 or 181. Open also to graduate students without administrative experience who have had the foregoing courses or their equivalent. M W F 9. *Marketing Building*. Professor BUTTERWORTH]. Not offered in 1931-32.

An introductory course covering the general problems of administration in elementary and secondary schools: types of school units; state and county organizations; functions of boards of education; selection, promotion, and tenure of teachers.

City School Administration and Supervision (Education 10). Throughout the year. Credit two hours a term. Prerequisite, Education 1. Professor JORDAN. M W 9. *Goldwin Smith* 248.

Principles of administration and supervision of state and city school systems, involving problems of evaluation and improvement of teaching, and of the subject matter in the public schools. The course will be adapted to the particular needs of the class.

[The Junior High School (Education 12). Throughout the year. Credit two hours. For seniors, graduates, and other qualified students. Professor JORDAN.] Not offered in 1931-32.

[The Principalship of the Centralized and Village School (Rural Education 175). Second term. Credit two hours. Given in alternate years. Open to graduate students by special permission. Professor FERRISS.] Not offered in 1931-32.

A course designed primarily for those preparing to be principals of schools containing both high school and elementary grades. Attention is given to the needs of those combining the work of principal and teacher of agriculture.

The Administration of Rural Schools (Rural Education 261). First term. Credit three hours. T Th 11-12:20. *Caldwell* 282. Professor BUTTERWORTH.

A course for students of experience dealing with the problems of organizing and administering education in the elementary and secondary schools in country and village districts.

Special Problems in School Administration (Rural Education 262). This course is divided into units in such a manner as to include the major problems of the school administrator. Professor BUTTERWORTH.

[A. School Finance. Second term. Credit two hours. *Caldwell* 282.] Not offered in 1931-32.

A study of sources of school funds; relation of school revenues to wealth; types of equalization funds; methods of distributing such funds; cost accounting; budget making; and the organization of school taxation.

B. The School Population. Second term. Credit two hours. T Th 9. *Caldwell* 282. The school census, attendance, grading and promotion, retardation, elimination and similar problems.

[**C. The School Plant.** Second term. Credit two hours.] Not offered in 1931-32.

Procedures and Techniques in Supervision (Rural Education 263). First term. Credit three hours. M W F 10. *Caldwell* 282. Professor MOORE.

The purpose of this course is to assist graduate students of experience to improve their supervisory procedures and techniques. The course includes a survey of the literature related to supervisory problems and an evaluation of the theories and practices involved. Schools are visited and procedures are observed from the viewpoint of the supervisor.

[**Seminary in Rural School Administration** (Rural Education 264). Second term. Credit two hours. Professor BUTTERWORTH.] Not offered in 1931-32.

Designed for those desiring to make an intensive study of administrative problems in rural elementary and secondary schools.

Administration and Supervision of Agricultural Education (Rural Education 267). First term. Credit three hours. Open to graduate students of approved qualifications. M F 2-3:20, and one laboratory to be arranged. T Th 9 should be kept free. *Caldwell* 282. Professor STEWART.

A course on the administration and supervision of vocational education, designed for persons preparing to administer and supervise agricultural education. Participation in field experience, study and supervision is a part of the program.

[**The Administration and Supervision of Home Economics Education** (Rural Education 269). First term. Credit three hours. For graduate students only. Professor BINZEL.] Not offered in 1931-32.

This course is intended for supervisors and for teachers who are preparing for supervisory positions in the field of home economics. The course is concerned with the analysis of the supervisor's job and with methods of supervision. Among the problems presented for study and investigation will be the organization and the administration of homemaking departments; the principles underlying the present day changes in home economics education; the principles underlying the organization of courses; evaluation of teaching; improvement of teachers in service; teachers' conferences; and study classes.

Principles of Curriculum Building (Rural Education 276). Second term. Credit three hours. For graduate students only. T Th 2-3:20. *Caldwell* 100. Professor FERRISS.

A consideration of the major problems, principles, and techniques in determining educational objectives, and curriculum content and organization, with special emphasis upon elementary and secondary education in rural communities.

Seminary in Rural Education (Rural Education 278). Second term. Credit two hours. Given in alternate years. M 4-5:30. *Caldwell* 143. Professor FERRISS.

Special topics: pupil guidance and providing for individual differences. Other topics may be substituted if interests of those participating make them desirable.

HISTORY OF EDUCATION

History of Education (Education 3). (a) (Greek, Roman, and Early Medieval). First term. Credit two hours. Open to upperclassmen and graduates only. T Th 10. *Boardman* C. Professor LAISTNER. (See History 7.) (b) (Late Medieval and Modern). Second term. Credit two hours. Open to upperclassmen and graduates only. T Th 10. *Goldwin Smith* 234. Professor SMITH. (See History 36.)

History of American Education (Education 13). First term. Repeated second term. Credit three hours. Prerequisite, Education 1, or its equivalent. Mr. HULSE. T Th S 10. *Goldwin Smith* 225.

A survey of educational changes in the United States from the beginning of the seventeenth century to the present, with special emphasis on public schools, and consideration of the religious, economic, political, and social factors affecting education. European influences throughout the period will also be considered briefly.

Readings in the History of Education (Education 16). Second term. Credit two hours. Prerequisite, Education 1 and 13, or permission of the instructor. Mr. HULSE. Hours to be arranged. *Goldwin Smith* 248. Primarily for graduate students. An advanced course, emphasizing the historic changes in aims and methods.

PRINCIPLES OF EDUCATION

Principles of Secondary Education (Education 2). Second term. Credit three hours. Prerequisite Education 1. Section 1, M W F 2. Professor JORDAN. *Goldwin Smith* 234. Section 2, T Th S 9. Assistant Professor FREEMAN. *Goldwin Smith* 234.

The nature and significance of education; biological and psychological foundations; the secondary school as a social institution; educational ideas and values; the curriculum. Students who elect course 2 must apply at *Goldwin Smith* 251 for assignment to sections.

Principles of Education (Rural Education 181). Second term. Credit three hours. Prerequisite, Rural Education 111. Open to juniors and seniors. Students preparing to teach home economics should take this course. Section 1, M W F 11. *Caldwell* 100. Section 2, M W F 8. *Roberts* 292. Professor MOORE.

A consideration of fundamental principles of education with special attention to the needs of prospective teachers in the high school.

Education and Vocations (Rural Education 194). First term. Credit three hours. Open to graduate students and seniors who have had Educational Psychology, and Economics or Sociology. T Th S 11. *Caldwell* 100. Professor EATON.

A study of vocational education from the point of view of a democratic philosophy of education.

Rural Secondary Education (Rural Education 281). First term. Credit four hours. Designed primarily for graduate students. M W F 9, and a period to be arranged. *Caldwell* 282. Professor FERRISS.

A course to consider some of the more basic problems in the nature, organization, curriculum, and extension of secondary education in its adaptation to rural needs and conditions. Among the topics treated are: the functions of rural secondary education; present demands upon the rural secondary school; problems of organization; problems of curriculum building; prevocational and vocational work; pupil guidance; extraclass activities; the rural secondary school and the adult.

The Junior High School and the Rural Community (Rural Education 287). Second term. Credit two hours. T Th 11. *Caldwell* 282. Professor FERRISS.

A survey of the development of the junior high school with particular reference to its functions in rural communities. Discussion falls under headings such as: its place in the reorganization of public education; its administrative organization; types of curricular organization; and other problems incident to the establishment and operation of a junior high school in the small town or open country.

PHILOSOPHY OF EDUCATION

Philosophy of Education (Rural Education 294). Second term. Credit three hours. Open to graduate students whose studies in education are already well forward. M W 11-12:30. *Caldwell* 492. Professor EATON.

A critique of education.

Philosophy of Education (Education 5). Second term. Credit two hours. Prerequisite, Education 1 and at least one course in Philosophy. Professor OGDEN. W 2-4. *Goldwin Smith* 248.

A study of education as interpreted by the more important philosophical conceptions and theories, with special application to the spirit and demands of modern society.

NATURE STUDY

Nature Study (Rural Education 7). Second term. Credit three hours. Prerequisite, one-half year of botany, biology, or zoology and a physical science. Lecture, M 12. *Fernow* 16. Practical exercises, M W 1:40-4 or T Th 1:40-4. Professor PALMER.

Laboratory and field practice with those subjects in physical and biological science most suitable for use in elementary schools with attention given to the methods of study, manner of presentation, and relation of the topics to agriculture.

Nature Literature (Rural Education 102). First term. Credit two hours. Prerequisite courses 111, 112, and 7. M W 10. *Fernow* 16.

Discussion of the history of the nature movement, with consideration of the contributions made to it and to elementary school methods by dramatists, and writers of prose, poetry, and fiction. The graded courses in nature-study outlines for various states are considered, to assist in the perfection of similar work in the public schools in New York State.

The Nature Study Movement and its Makers (Rural Education 109). First term. Credit two hours. Prerequisite, courses 111, 121, and 7. Professor PALMER.] Not offered in 1931-32.

A study of the past and present status of nature and science education in elementary schools.

SPECIAL COURSES OFFERED IN 1931 SUMMER SESSION

The courses listed below are not offered during the regular year 1931-32.

EDUCATIONAL PSYCHOLOGY AND MEASUREMENT

Psychology for Students of Education (Rural Education S111a). Credit two hours. Daily except Sat., Section 1, 10. *Caldwell* 100; Section 2, 11. *Caldwell* 250. Assistant Professors BAYNE and WINSOR.

Psychology for Students of Education (Rural Education S111b). Credit two hours. M W F, 7:30-8:50. *Caldwell* 250. Professor KRUSE. Prerequisite S 111a or its equivalent. Students who have not had S 111a should confer with instructor before registering for this course.

Mental and Educational Measurement (Rural Education S150). Credit two hours. Daily except Sat., 9. *Caldwell* 143. Assistant Professor WINSOR.

Educational Measurement (Rural Education S151). Credit two hours. Daily except Sat., 8. *Caldwell* 100. Assistant Professor BAYNE.

Advanced Mental Measurements (Education S8). Credit two to three hours. Daily except Sat., 8. *GS* 236. Laboratory at hours to be determined. Prerequisite Education S 7 or its equivalent. Assistant Professor FREEMAN.

EDUCATIONAL METHOD

The Teaching of Nature Study (Rural Education S 7a). Credit two hours. Lectures, M W F, 10. *Fernow* 122. Field and laboratory work, T Th, 10-12:30 or 1:40-4. *Fernow* 8. Dr. FISHER, Dr. WALDRON, Miss GORDON, and Mr. KELLOGG.

Laboratory and field work open only to those taking the work for credit.

Method and Procedure in Teaching in the Secondary School (Rural Education S 121b). Credit two hours. Daily except Sat., 10. *East Roberts* 232. Dr. PALMER.

The Child-Centered School (Rural Education S122). Credit two hours. Daily except Sat., 10. *Caldwell* 143. Miss HEYL.

The Teaching of Science in the Rural Secondary School (Rural Education S 126). Credit two hours. Daily except Sat., 9. *Fernow* 16. Dr. WALDRON.

Visual Aids in Teaching (Rural Education 127). Credit two hours. Daily except S., 8. *Fernow* 8. Dr. FISHER.

The Teaching of Natural History in the Field (Rural Education S 128). Credit three hours. Lecture, M 12. *Fernow* 8. Field work, F, 1:40 to S., 8 p. m. Dr. FISHER, Dr. WALDRON, Professors WRIGHT, NEEDHAM, HARRIS, PETRY, HOSMER, CLAASSEN, and ALLEN, and Miss GORDON and Mr. KELLOGG.

The Teaching of Vocational Agriculture in the Secondary School (Rural Education S 132). Credit two hours. Lectures, M T Th F, 9. Laboratory, W 1:40-4. *Caldwell* 282. Mr. HOSKINS.

Building Courses of Study in Vocational Agriculture (Rural Education S 132a). Credit one hour. Daily except Sat., 8. Laboratory, Th F, 1:40-5:00. July 20 to 31. *Caldwell* 282. Mr. HOSKINS.

Organizing the Supervised Practice Program in Vocational Agriculture (Rural Education S 132b). Credit one hour. Daily except Sat., 8. Laboratory, T Th, 1:40-5:00. August 3 to 14. *Caldwell* 282. Mr. GETMAN and Mr. HOSKINS.

Organization and Methods of Teaching Industrial Arts (Rural Education S 142). Credit two hours. Daily except Sat., 8. *Agricultural Engineering Laboratory*. Open to students of vocational education who are interested in the teaching of industrial arts. Mr. CLARK.

Foundations of Method (Rural Education S 226). Credit two hours. Daily except Sat., 10. *Goldwin Smith* 183. Professor MOORE.

The Teaching of Homemaking in the Secondary School (Rural Education S 235). Credit two hours. Daily except Sat., 9. *East Roberts* 232. Miss NELSON.

The Teaching of Home Management in the Secondary School (Rural Education S 235a). Credit one hour. Daily except Sat., 10. July 6 to 24. *Caldwell* 294. Miss WINCHELL.

The Teaching of a Home Economics Survey Course in the Secondary School (Rural Education S 235b). Credit one hour. Daily except Sat., 10. July 27 to August 14. *Caldwell* 294. Miss WINCHELL.

Methods in Extension Work (Rural Education S238). Credit two hours. Daily except Sat., 8. *Roberts* 392.

(a) Public speaking for extension workers. July 6 to 17. Assistant Professor PEABODY.

(b) Use of the press in extension work. July 20 to 31. Professor ADAMS.

(c) Method demonstrations and result demonstrations in extension work. August 3 to 14. Mr. BEHREND.

Special Problems in Education (Education S 9). Professor JORDAN will advise students majoring in the Department of Education; students majoring in Rural Education may consult any member of that Department.

Problems in School Administration (Education S 10). Credit two hours. T Th, 1:40-4. *GS* 236. Professor JORDAN.

Extra Classroom Activities (Education S 11). Credit two hours. Daily except Sat., 8. *GS* 256. Professor JORDAN.

Practice in High School Method (Education S 20). Credit one to three hours. Hours to be arranged. *GS* 251. Mr. HULSE.

Teachers' Course in Social Studies in Senior High School (Education S 30). Credit two hours. Daily except Sat., 12. *GS* 225. Mr. KIDGER.

Secondary School Methods (Education S 4). Credit two hours. Daily except Sat., 10. *GS* 256. Professor RUEDIGER.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

The Curriculum of the Junior-Senior High School (Education S 17). Credit two hours. Daily except Sat., 10. *Goldwin Smith* 221. Mr. MEYER.

The Principalship of the Centralized and Village School (Rural Education S 175a). Credit two hours. Daily except Sat., August 3 to 14. First meeting, M, 8. *Fernow* 210. Professor FERRISS.

College Preparation of Teachers of Agriculture for Departments in Secondary Schools (Rural Education S 245). Credit two hours. Daily except Sat., 9. *Caldwell* 250. Professor STEWART.

The Preparation of Teachers of Home Economics (Rural Education S 248). Credit two hours. Open to graduate students of approved qualifications. Daily except Sat., 8. *Caldwell* 294. Miss WINCHELL.

The School Plant (Rural Education S 262c). Credit two hours. Daily except Sat., 8. *Caldwell* 143. Professor BUTTERWORTH.

The Central Rural School District (Rural Education S 262e). Credit two hours. Daily except Sat., 10. *Caldwell* 250. Professor BUTTERWORTH.

The Administration of a State System of Schools for Vocational Agriculture (Rural Education S 267a). Open to graduate students in agricultural education who are registered for S 194, S 245, or S 262e. Credit one hour. M W, 2-3:30. *Caldwell* 143. Professor STEWART.

The Curriculum of the Rural School (Rural Education S 274). Credit two hours. Daily except Sat., July 20 to 31. First meeting, M, 8. *Fernow* 210. Miss HEYL.

High School Administration (Education S 5). Credit two hours. Daily except Sat., 12. *GS* 256. Mr. HULSE.

The Junior High School (Education S 14). Credit two hours. Daily except Sat., 12. *GS* 221. Mr. MEYER.

School Supervision (Education S 20). Credit two hours. Daily except Sat., 11. *GS* 183. Professor BENTLEY.

HISTORY AND PRINCIPLES OF EDUCATION

Educational and Vocational Guidance (Education S 28). Credit two hours. Daily except Sat., 9. *GS* 120. Mr. BENTLEY.

Principles of Education (Rural Education S 181). Credit three hours. Daily except Sat., 11-12:30. *East Roberts* 232. Dr. PALMER.

History of American Education (Rural Education S 182). Credit two or three hours. For third hour confer with instructor. Daily except Sat., 10. *Caldwell* 282. Professor BRADFORD.

Education and Vocations (Rural Education S 194). Open to those who have completed courses in Educational Psychology and in Economics or Sociology. Credit two hours. Daily except Sat., 11. *Caldwell* 282. Professor EATON.

The High School in Rural and Village Communities (Rural Education S 281). Credit two hours. Daily except Sat., 9. *Caldwell* 100. Professor FERRISS.

Adult Education (Rural Education S 288). Credit two hours. Daily except Sat., 8. *East Roberts* 222. Professor BRADFORD.

Philosophy of Education for Extension Workers (Rural Education S 298). Credit two hours. Daily except Sat., 9. *Caldwell* 492. Professor EATON.

Principles of Education (Education S 2). Credit two hours. Daily except Sat., 8. *GS* 245. Professor RUEDIGER.

History of Education (Education S 3). Credit two hours. Lectures, recitations, and prescribed readings. Daily except Sat., 9. *GS* 256. Mr. HULSE.

Philosophy of Education (Education S 6). Credit two hours. M W F, 2-3:30. *GS* 236. Professor OGDEN.

